

## t22\_wellord2

(TMRAns7V4t5kf59bZGR3EMGbi4rLimN9SRs)

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Let  $k1\_wellord2 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski (k1\_tarski X0) X1) \Leftrightarrow (X0 \in X1) \quad (1)$$

Assume the following.

$$\forall X0. k1\_relat\_1 (k1\_tarski (k4\_tarski X0 X0)) = k1\_tarski X0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. r1\_tarski X0 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. v1\_relat\_1 (k1\_tarski (k4\_tarski X0 X1)) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((X1 = k1\_wellord2 X0) \Leftrightarrow \\ ((k1\_relat\_1 X1 = X0) \wedge (\forall X2. \forall X3. ((X2 \in X0) \wedge (X3 \in X0)) \Rightarrow \\ ((k4\_tarski X2 X3 \in X1) \Leftrightarrow (r1\_tarski X2 X3)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1\_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (6)$$

**Theorem 1**  $\forall X0. k1\_wellord2 (k1\_tarski X0) = k1\_tarski (k4\_tarski X0 X0)$ .